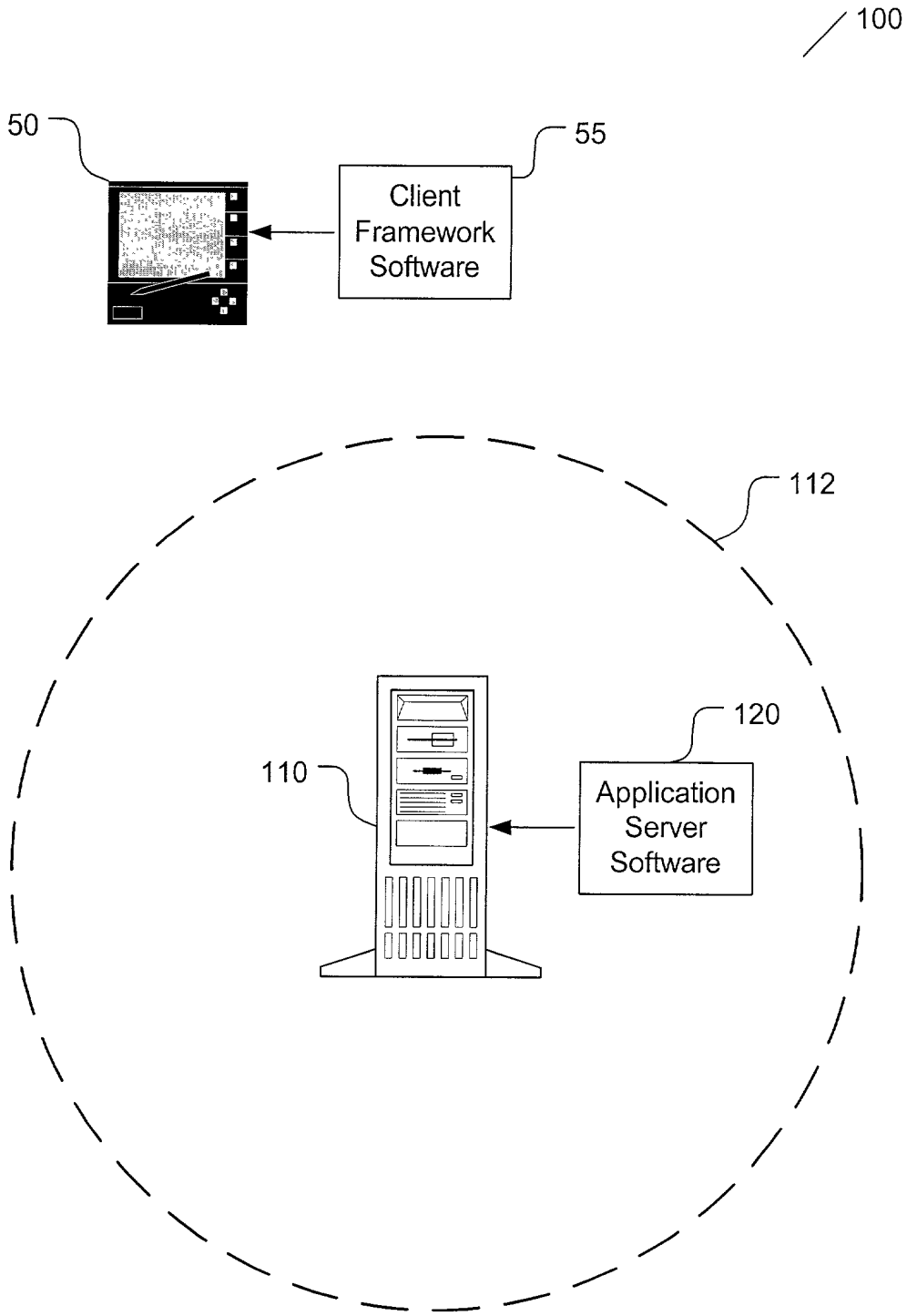
100
50
55
Client Framework Software
112
110
120
Application Server Software

Figure 1

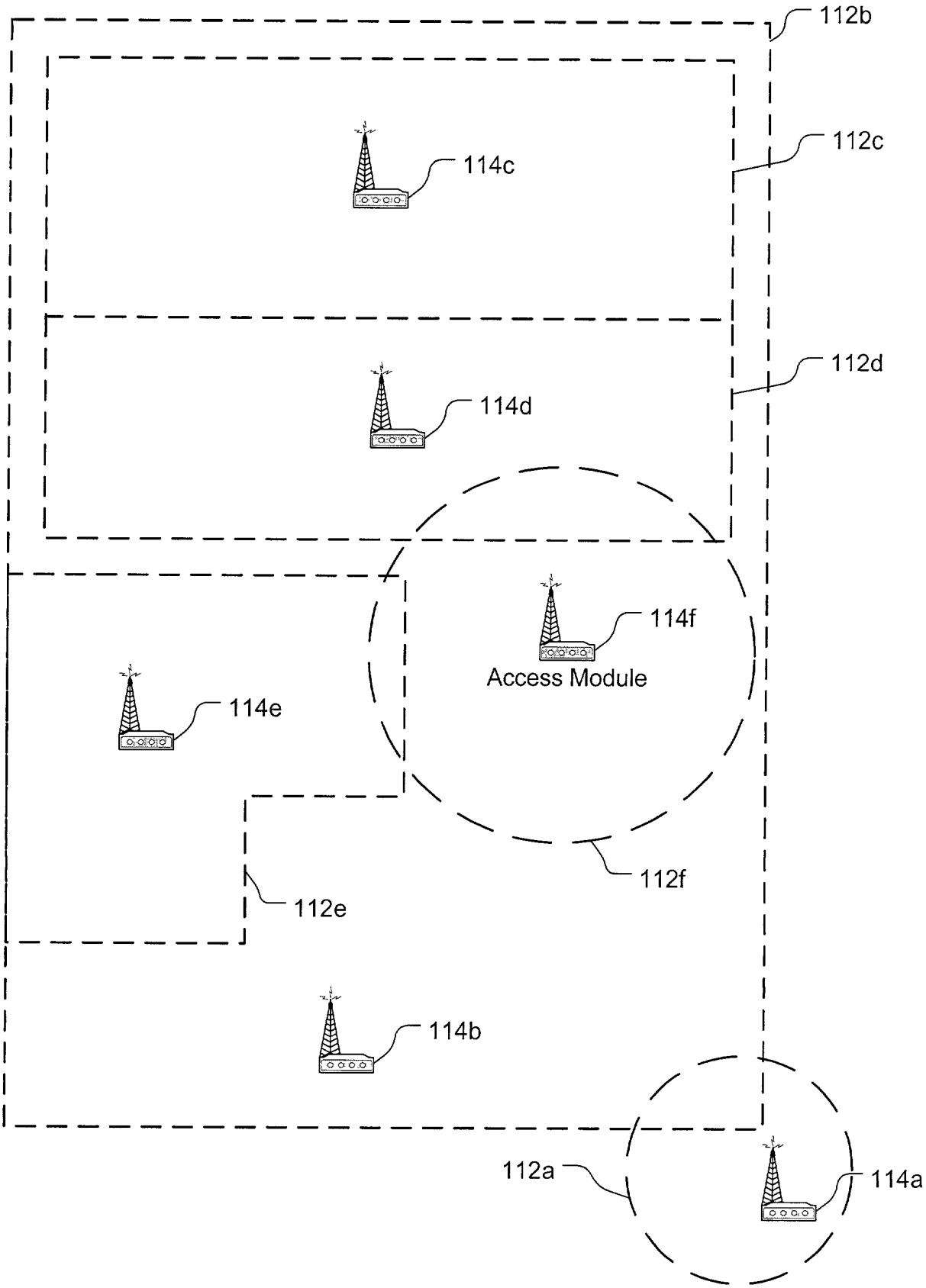
112b
112c
114c
112d
114d
114f
Access Module
114e
112f
112e
114b
112a
114a

Figure 2

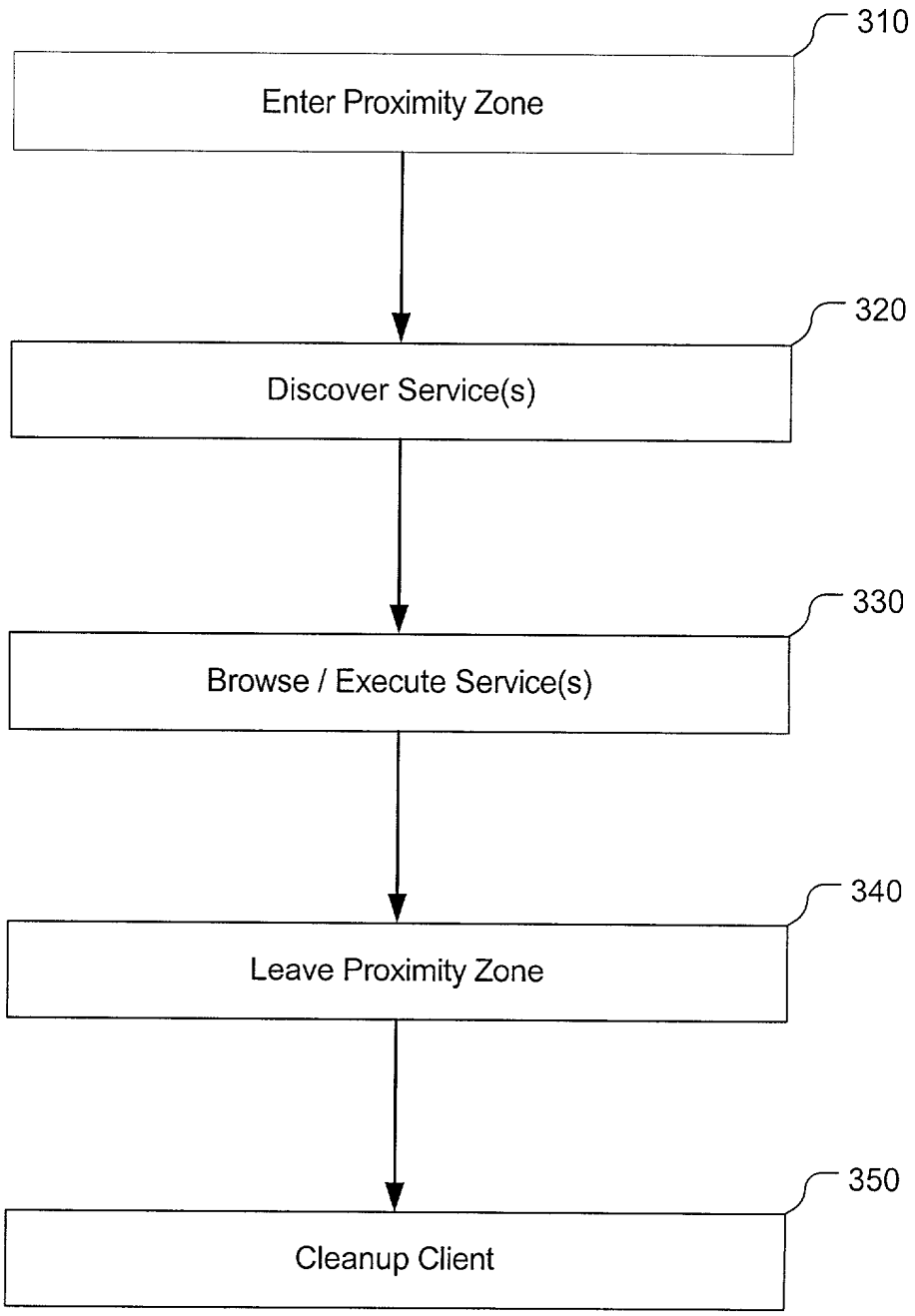
310
Enter Proximity Zone
320
Discover Service(s)
330
Browse / Execute Service(s)
340
Leave Proximity Zone
350
Cleanup Client

Figure 3

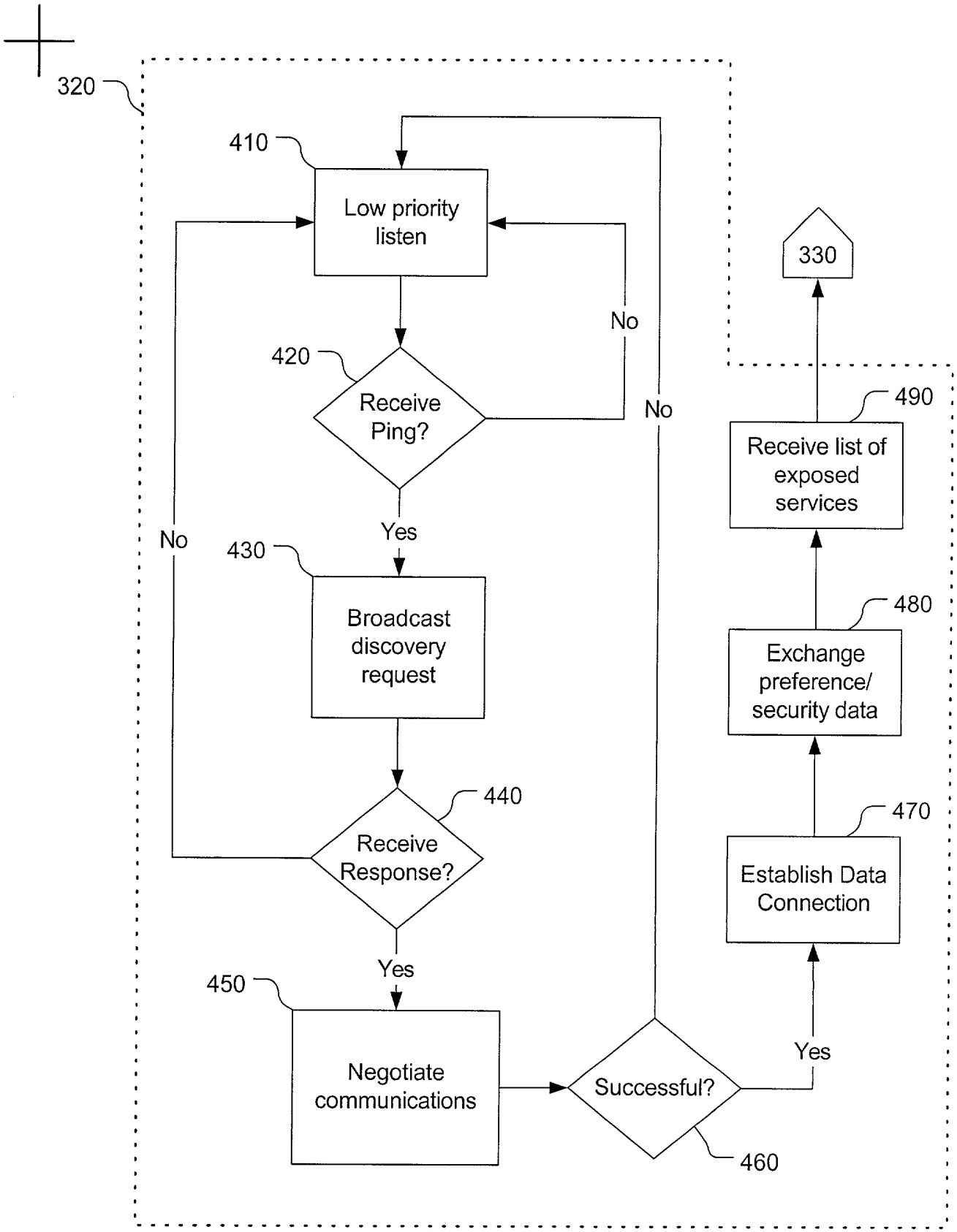
320
410
Low priority listen
420
Receive Ping?
No
Yes
No
No
430
Broadcast discovery request
440
Receive Response?
No
Yes
450
Negotiate communications
Successful?
460
Yes
330
490
Receive list of exposed services
480
Exchange preference/ security data
470
Establish Data Connection

Figure 4

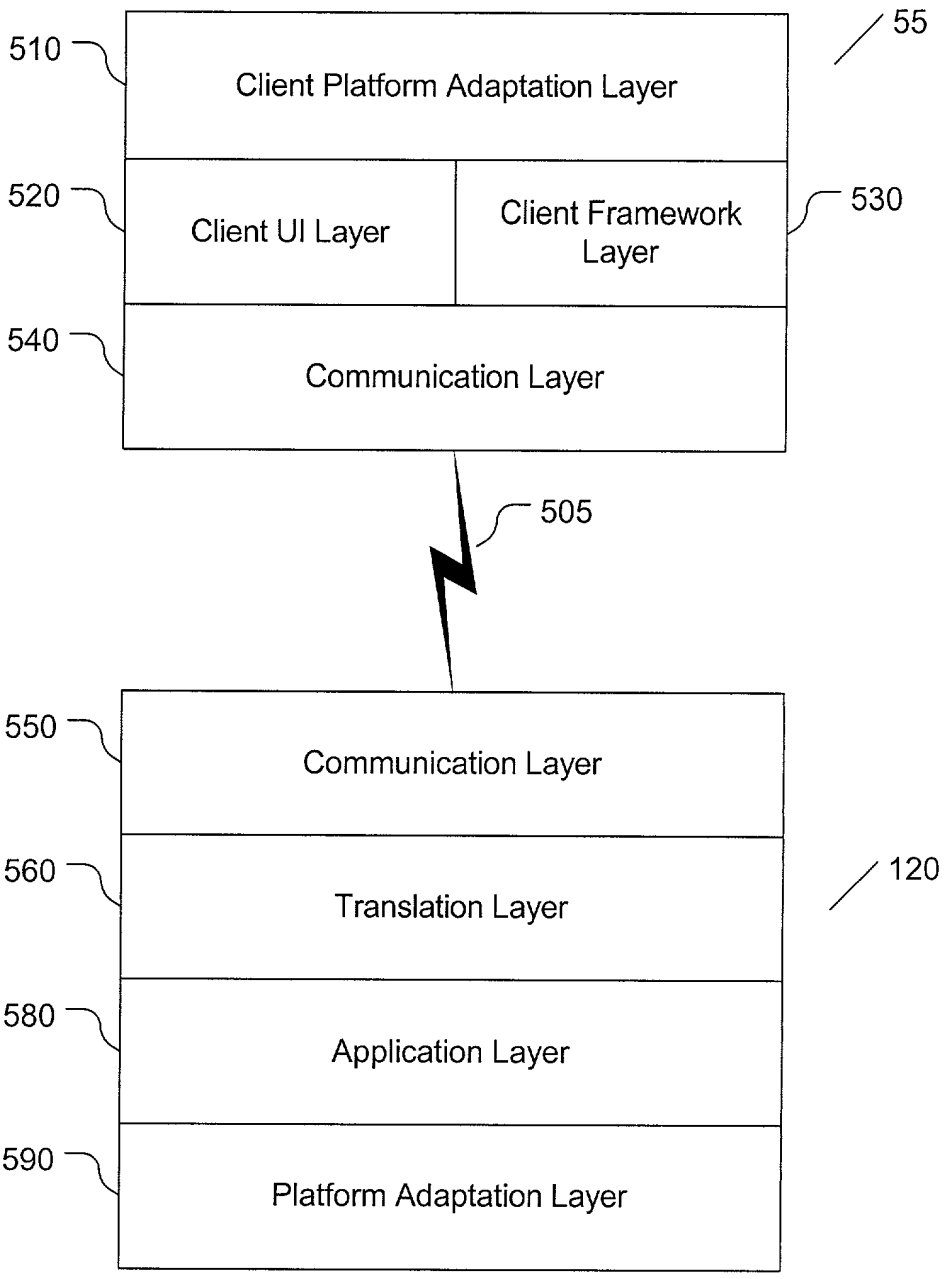
510
Client Platform Adaptation Layer
55
520
Client UI Layer
Client Framework Layer
530
540
Communication Layer
505
550
Communication Layer
560
Translation Layer
120
580
Application Layer
590
Platform Adaptation Layer

Figure 5

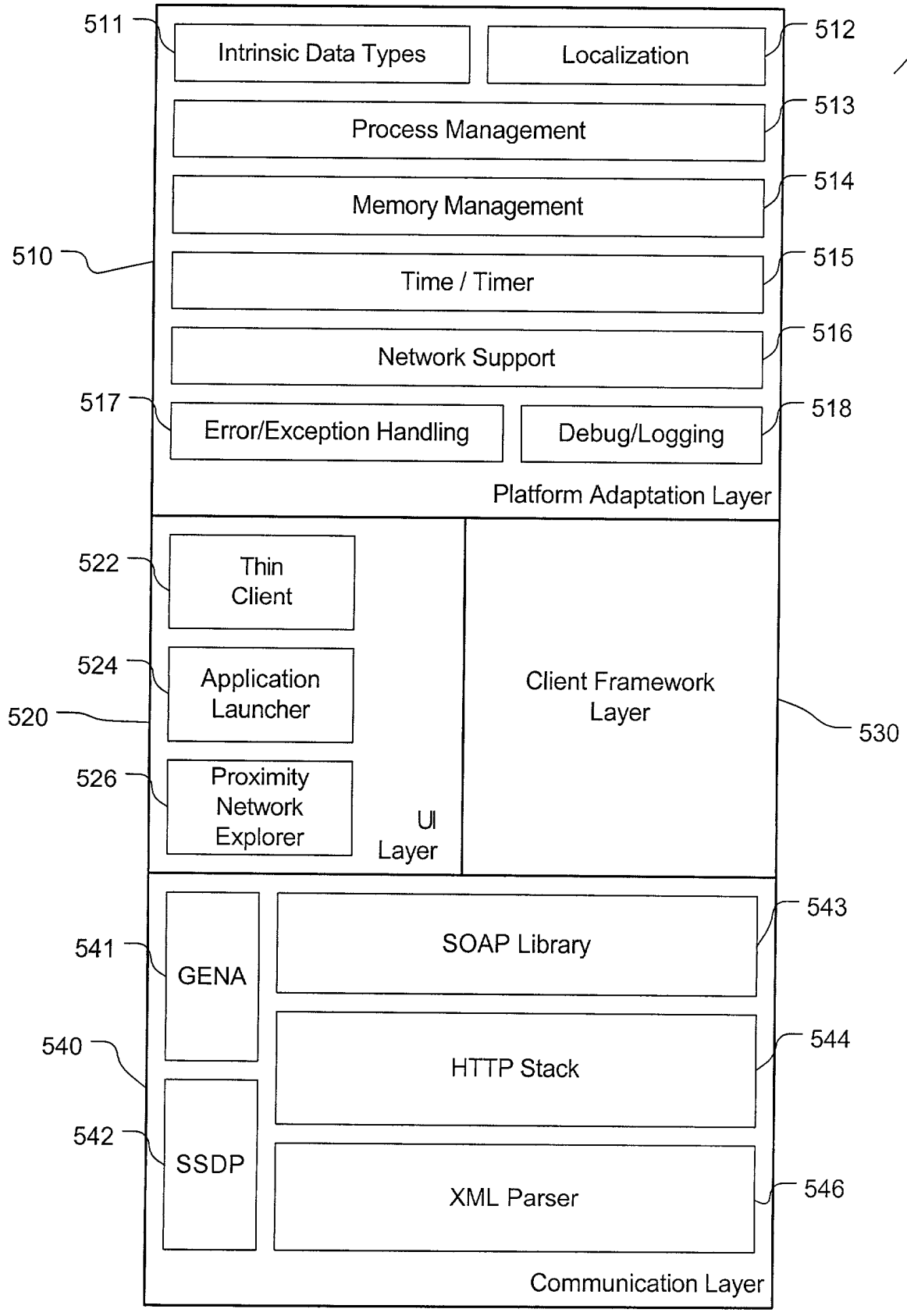
511
Intrinsic Data Types
Localization
512
55
513
Process Management
514
Memory Management
510
515
Time / Timer
516
Network Support
517
Error/Exception Handling
Debug/Logging
518
Platform Adaptation Layer
522
Thin Client
524
Application Launcher
520
526
Proximity Network Explorer
UI Layer
Client Framework Layer
530
543
541
GENA
SOAP Library
540
544
HTTP Stack
542
SSDP
XML Parser
546
Communication Layer

Figure 6

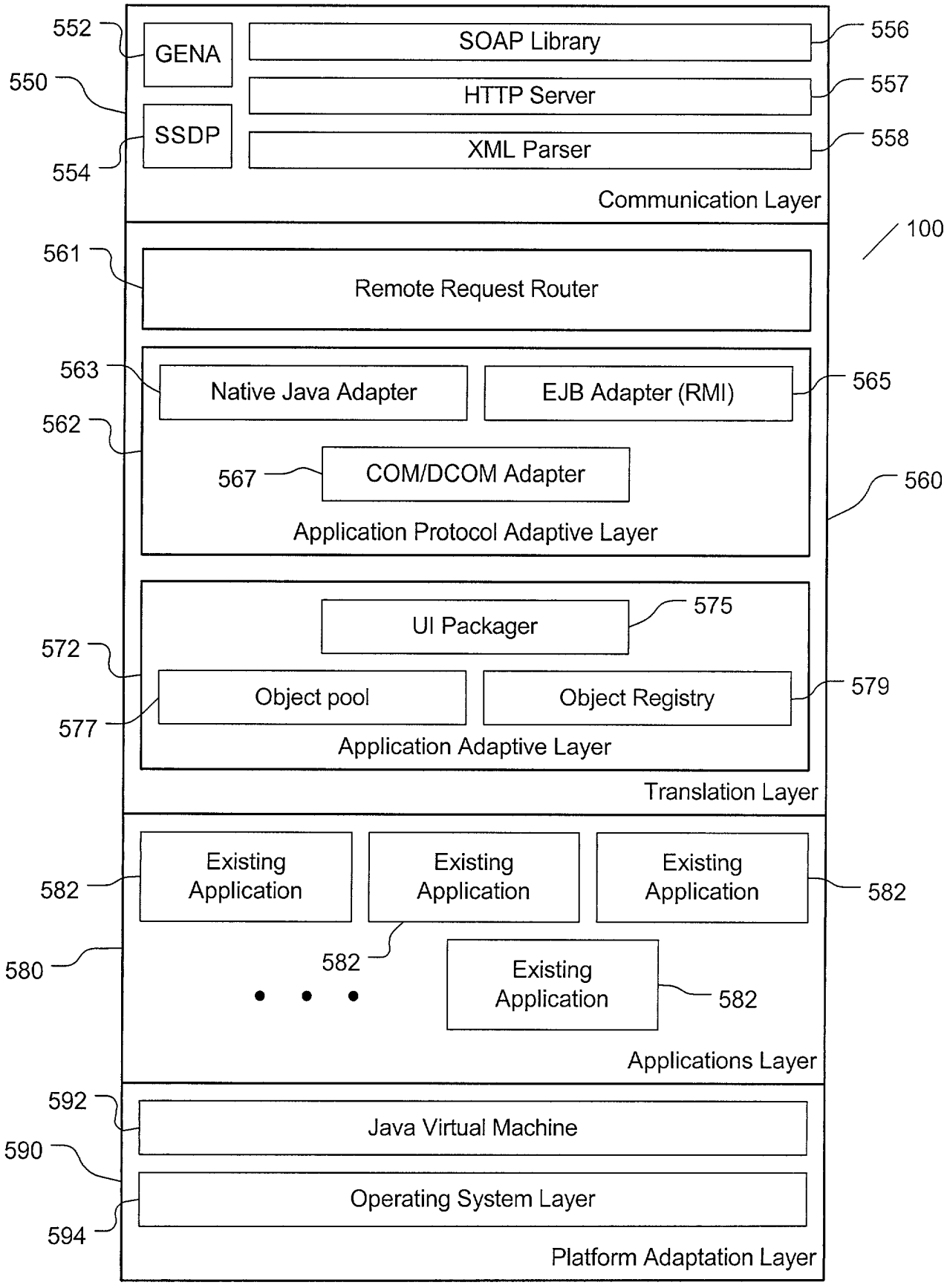
552
GENA
550
SSDP
554
SOAP Library
556
HTTP Server
557
XML Parser
558
Communication Layer
100
561
Remote Request Router
563
Native Java Adapter
EJB Adapter (RMI)
565
562
567
COM/DCOM Adapter
560
Application Protocol Adaptive Layer
UI Packager
575
572
Object pool
Object Registry
579
577
Application Adaptive Layer
Translation Layer
Existing Application
582
Existing Application
Existing Application
582
580
582
Existing Application
582
Applications Layer
592
Java Virtual Machine
590
Operating System Layer
594
Platform Adaptation Layer

Figure 7